



# Analytical Laboratory

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Huntersville, NC 28078-7929  
McGuire Nuclear Complex - MG03A2  
Phone: 980-875-5245 Fax: 980-875-4349

## Order Summary Report

**Order Number:** J13100056

**Project Name:** NPDES - MONTHLY

**Customer Name(s):** Michael Byrd, Craig Mercer, Mark J Harper, Todd Spade, Matthew Hoyt, Desiree

**Customer Address:** 11021 BROWER RD.

NORTH BEND, OH 45052

**Lab Contact:** Mary Ann Ogle

**Phone:** 980-875-5274

**Report Authorized By:**  
(Signature)

Mary Ann Ogle

**Date:**

10/16/2013

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### Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

### Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

### Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

*Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)*

### Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013024195	MIAMI-FORT	01-Oct-13 9:00 AM	Mark Harper	OUTFALL 002
2013024196	MIAMI-FORT	01-Oct-13 9:45 AM	Mark Harper	OUTFALL 608
2 Total Samples				

## Technical Validation Review

### Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

☒ Yes☐ No

All Results are less than the laboratory reporting limits.

☐ Yes☒ No

All laboratory QA/QC requirements are acceptable.

☒ Yes☐ No

### Report Sections Included:

☒ Job Summary Report☒ Sample Identification☒ Technical Validation of Data Package☒ Analytical Laboratory Certificate of Analysis☐ Analytical Laboratory QC Report☐ Sub-contracted Laboratory Results☐ Customer Specific Data Sheets, Reports, & Documentation☐ Customer Database Entries☒ Chain of Custody☐ Electronic Data Deliverable (EDD) Sent Separatel

Reviewed By: DBA Account

Date: 10/16/2013

# Certificate of Laboratory Analysis

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*This report shall not be reproduced, except in full.***Order # J13100056**

Site: OUTFALL 002

Collection Date: 01-Oct-13 9:00 AM

**Sample #: 2013024195**

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<b><u>TOTAL DISSOLVED SOLIDS</u></b>								
TDS	<b>830</b>	mg/L		25	1	SM2540C	10/07/2013 13:29	DSBAKE1

Site: OUTFALL 608

Collection Date: 01-Oct-13 9:45 AM

**Sample #: 2013024196**

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<b><u>ALKALINITY (FIXED END POINT 4.5)</u></b>								
Alkalinity (mg/L CaCO <sub>3</sub> )	<b>1300</b>	mg/L (CaCO <sub>3</sub> )		0.1	1	SM2320B	10/04/2013 13:33	TJA7067
<b><u>INORGANIC IONS BY IC</u></b>								
Chloride	<b>4400</b>	mg/L		100	1000	EPA 300.0	10/04/2013 22:02	JAHERMA
Fluoride	<b>47</b>	mg/L		10	100	EPA 300.0	10/04/2013 22:02	JAHERMA
Sulfate	<b>18000</b>	mg/L		200	2000	EPA 300.0	10/04/2013 22:02	JAHERMA
<b><u>TOTAL METALS BY ICP</u></b>								
Boron (B)	<b>493</b>	mg/L		2.5	50	EPA 200.7	10/07/2013 13:11	MHH7131
Iron (Fe)	<b>0.327</b>	mg/L		0.01	1	EPA 200.7	10/07/2013 13:11	MHH7131
Manganese (Mn)	<b>10.7</b>	mg/L		0.005	1	EPA 200.7	10/07/2013 13:11	MHH7131
<b><u>TOTAL RECOVERABLE METALS BY ICP-MS</u></b>								
Arsenic (As)	<b>&lt; 20</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Barium (Ba)	<b>116</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Cadmium (Cd)	<b>&lt; 20</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Chromium (Cr)	<b>&lt; 20</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Copper (Cu)	<b>&lt; 20</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Lead (Pb)	<b>&lt; 20</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
Zinc (Zn)	<b>&lt; 20</b>	ug/L		20	1	EPA 200.8	10/07/2013 14:28	DJSULL1
<b><u>TOTAL DISSOLVED SOLIDS</u></b>								
TDS	<b>44000</b>	mg/L		25	1	SM2540C	10/07/2013 13:29	DSBAKE1
<b><u>TOTAL SUSPENDED SOLIDS</u></b>								
TSS	<b>9.0</b>	mg/L		5	1	SM2540D	10/04/2013 10:27	DSBAKE1



